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B05

TERUMO CORP

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Prepn. of liposome - by lyophilising liposome membrane, producing homogeneous powder, adding water, hydrating and adding physiologically active substance

C91-114476

Liposome membrane forming lipid is lyophilised and made into a homogeneous mixing powder, to which water is added. The mixt. is hydrated at 50-80 deg.C. To the hydrate, an aq. soln. of physiologically active substance is added. The obtd. mixt. is stirred by a high speed stirrer at 5-10 deg.C until the average particle size of the suspended particles in the mixt. reaches to 180-300 nm.

Viscosity of the aq. soln. of physiologically active substance is 10-3000 cp. (4 deg.C). The physiologically active substance is haemoglobin.

USE/ADVANTAGE - Very fine liposome can be obtd. and high concn. and high viscosity aq. soln. can be incorporated in the liposome. Liposome of value 0.40-1.87 (wt. of liposome membrane forming lipid/wt. of solute of inner soln.) can be obtd. Accordingly, the suspension concn. of liposome can be lowered, and the viscosity is also lowered. When it is administered in a blood vessel, no burden occurs to the circulatory organs. It is suitable for prepn. of artificial red blood cell. (4pp Dwg.No.0/0)

B(4-B1B, 4-B4D2, 12-H6, 12-M11F)